

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (previously presented): A system for controlling a data network, comprising:
means for receiving a plurality of quality of service requests that each correspond to one of a plurality of microflows;
control means for controlling one or more elements of said data network; and
means for correlating the quality of service requests so as to define at least one set of a plurality of correlated microflows;
wherein the control means effects said control of said elements of said data network only once for the quality of service requests of each said set; and
each said set comprises a plurality of microflows whose corresponding quality of service requests are correlated.

2. (previously presented): A control system according to claim 1, wherein each said microflow comprises a 5-tuple and the correlation is effected by comparing the 5-tuples of said microflows.

3. (currently amended): A control system according to claim 2, wherein each said 5-tuple of said microflows comprises an address of a sender and an address of an addressee and the correlation is effected by comparing the addresses of the sender and the addressee.

4. (previously presented): A control system according to claim 1, wherein said control means comprises a software module remote from said correlation means and communicating therewith by means of a communication protocol.

5. (previously presented): A control system according to claim 1, wherein said network elements may be monitored atomically.

6. (previously presented): A control system according to claim 1, wherein the control means are adapted to perform admission control prior to controlling said network elements.

7. (currently amended): A control system according to claim 1, wherein the control means effects said control are such that said correlated reservation requests share the same bandwidth.

8. (currently amended): A control system according to claim 1, wherein the correlation control means are adapted to anticipate microflows of return packets and to consider them to determine the correlated resource reservation requests.

9. (previously presented): A control device of a data network, comprising:
means for receiving a plurality of quality of service requests that each correspond to one of a plurality of microflows;
means for communicating with an admission controller for reserving the required resources within said data network,
wherein the control device comprises means for correlating the quality of service requests so as to define at least one set of a plurality of correlated microflows; and
the control device transmits a single resource reservation request to the admission controller for the quality of service requests of each said set; and
each said set comprises a plurality of microflows whose corresponding quality of service requests are correlated.

10. (currently amended): A control device according to claim 9 wherein each said microflow comprises a 5-tuple and the correlation is effected by comparing the 5-tuples of said microflows.

11. (currently amended): A control device according to claim 10, wherein each said 5-tuple of said microflows comprises an address of a sender and an address of an addressee and the correlation is effected by comparing the addresses of the sender and the addressee.

12. (previously presented): A control device according to claim 9, wherein said correlated quality of service requests may share the same bandwidth.

13. (currently amended): A control device according to claim 9, wherein the ~~correlation means~~control device ~~are adapted to anticipate~~ return microflows and ~~to consider~~ them for determining the correlated quality of service requests.

14. (previously presented): An admission controller associated with a domain of a data network, comprising:

means for receiving a single resource reservation request for the quality of service requests of each of at least one set of a plurality of correlated microflows, each quality of service request corresponding to one of a plurality of microflows, each said set comprising a plurality of microflows whose corresponding quality of service requests are correlated, and control means for controlling elements of said domain, wherein the admission controller further comprises means for communicating said single resource reservation request for each said set to an admission controller associated with a second domain of said data network.